

Flood Control Project Maintenance
Levee Inspections

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0002 Brannan Andrus Levee Maintenance District	Overall LMA Rating	Total LMA Miles						
	M	19.32						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.41		0.41	2.12%	0.05	0.24		
Trim / Thin Trees	0.61		0.61	3.16%				
Encroachments	0.03		0.03	0.16%	0.22	0.02		
Animal Control	0.01		0.01	0.05%				
Flood Preparedness & Training	0.19		0.19	0.98%				
<i>Supplemental</i>								
USACE Erosion Survey	0.60	0.50	2.60	13.46%				
<i>LMA Totals:</i>	1.85	0.50	3.85	19.93%	0.27	0.26	0.00	0.00

Unit No. 01 Georgiana Slough RB NA0002	Overall Unit Rating	Total Unit Miles						
	A	6.02						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.41		0.41	6.81%		0.09		
Trim / Thin Trees	0.11		0.11	1.83%				
Encroachments	0.02		0.02	0.33%	0.01			
Animal Control	0.01		0.01	0.17%				
<i>Unit Totals:</i>	0.55	0.00	0.55	9.14%	0.01	0.09	0.00	0.00

Unit No. 02 Sacramento River LB NA0002	Overall Unit Rating	Total Unit Miles						
	U	13.30						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.05	0.15		
Trim / Thin Trees	0.50		0.50	3.76%				
Encroachments	0.01		0.01	0.08%	0.21	0.02		
<i>Supplemental</i>								
USACE Erosion Survey	0.60	0.50	2.60	19.55%				
<i>Unit Totals:</i>	1.11	0.50	3.11	23.38%	0.26	0.17	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Fall 2012 Levee Inspection Results

Brannan Andrus Levee Maintenance District

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 01 Georgiana Slough			Right	6.02
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/07/2012 - 03/07/2012		10/25/2012 - 10/25/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Gil Labrie DCC Engineering		Gil Labrie DCC Engineering	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
L/MR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
1	Earthen Levee	Operations & Maintenance Manuals	LS	A Ma						°	° 26
										°	°
											DWR ID: DWR_NA0002_01_s_2012_26
2	Earthen Levee	Flood Preparedness & Training	LS	M Ma						°	° 27
										°	°
											DWR ID: DWR_NA0002_01_s_2012_27
3	Earthen Levee	Emergency Supplies & Equipment	LS	A Ma						°	° 28
										°	°
											DWR ID: DWR_NA0002_01_s_2012_28
4	0.50 0.75	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses or berryvines at landside toe.					38.182702 ° -121.570497 °	38.182198 ° -121.574877 ° Y
											DWR ID: DWR_NA0002_01_s_2012_1
5	1.58 1.58	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.					38.170425 ° -121.581080 °	38.172887 ° -121.580590 °
											DWR ID: DWR_NA0002_01_s_2012_25
6	2.25 2.25	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.					38.163460 ° -121.584406 °	38.163460 ° -121.584406 °
											DWR ID: DWR_NA0002_01_s_2012_6
7	2.29 2.34	Earthen Levee	Vegetation	LS U En	V6 : Landscaping					38.162918 ° -121.584721 °	38.162322 ° -121.585081 ° Y
											DWR ID: DWR_NA0002_01_s_2012_36
8	2.30 2.30	Earthen Levee	Encroachments	WS M Ma	FW : Firewood					38.162773 ° -121.584767 °	38.162773 ° -121.584767 ° Y
											DWR ID: DWR_NA0002_01_s_2012_3
9	2.36 2.36	Earthen Levee	Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					38.162004 ° -121.585229 °	38.162004 ° -121.585229 °
											DWR ID: DWR_NA0002_01_s_2012_7
10	2.46 2.46	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.					38.161731 ° -121.585352 °	38.160542 ° -121.585892 °
											DWR ID: DWR_NA0002_01_s_2012_8
11	3.62 3.62	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.					38.151744 ° -121.596425 °	38.151744 ° -121.596425 °
											DWR ID: DWR_NA0002_01_s_2012_9
12	3.75 3.75	Earthen Levee	Encroachments	WSA/W Ma	TR : Tree or limb Inspector Comments: Downed tree on waterside slope.					38.150573 ° -121.598352 °	38.150573 ° -121.598352 °
											DWR ID: DWR_NA0002_01_s_2012_22
13	3.93 3.93	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.					38.148379 ° -121.599970 °	38.148379 ° -121.599970 ° Y
											DWR ID: DWR_NA0002_01_s_2012_10
14	3.93 3.97	Earthen Levee	Vegetation	LS U En	V6 : Landscaping					38.148318 ° -121.599947 °	38.147898 ° -121.600347 ° Y
											DWR ID: DWR_NA0002_01_s_2012_11

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

MR No	Waterway						Bank	Unit Miles	Inspection Start/End	Inspector				
	Levee Mile		Category	Item	* Location	** Rating								
	Start	End												
	Unit No. 01 Georgiana Slough						Right	6.02	10/25/2012 10/25/2012	Richard Willoughby				
15	4.18	4.20	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level.		38.145094 ° -121.601585 °	38.144817 ° -121.601477 °	12				
								DWR ID: DWR_NA0002_01_s_2012_12						
16	4.25	4.28	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.		38.144134 ° -121.601177 °	38.143747 ° -121.600924 °	13				
								DWR ID: DWR_NA0002_01_s_2012_13						
17	4.36	4.36	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T1 : Trim trees to at least five feet above ground level.		38.142838 ° -121.600163 °	38.142838 ° -121.600163 °	21				
								DWR ID: DWR_NA0002_01_s_2012_21						
18	4.78	4.78	Earthen Levee	Encroachments	LS En	GA : Garbage Inspector Comments: Landowner stock pile wooden beams on landside shoulder.		38.137478 ° -121.596512 °	38.137472 ° -121.596512 °	24				
								DWR ID: DWR_NA0002_01_s_2012_24						
19	4.98	4.98	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.		38.135158 ° -121.594198 °	38.135158 ° -121.594198 °	14				
								DWR ID: DWR_NA0002_01_s_2012_14						
20	5.11	5.11	Earthen Levee	Trim / Thin Trees	WS Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.		38.133759 ° -121.592598 °	38.133759 ° -121.592598 °	15				
								DWR ID: DWR_NA0002_01_s_2012_15						
21	5.25	5.25	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.		38.132238 ° -121.590897 °	38.132238 ° -121.590897 °	16				
								DWR ID: DWR_NA0002_01_s_2012_16						
22	5.33	5.33	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level.		38.131327 ° -121.589980 °	38.131327 ° -121.589980 °	2				
								DWR ID: DWR_NA0002_01_s_2012_2						
23	5.42	5.42	Earthen Levee	Encroachments	LS Ma	TR : Tree or limb Inspector Comments: Downed tree limb on landside slope.		38.130355 ° -121.588942 °	38.130355 ° -121.588942 °	4				
								DWR ID: DWR_NA0002_01_s_2012_4						
24	5.46	5.57	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove vegetation at landside toe.		38.129810 ° -121.588218 °	38.129325 ° -121.586448 °	23				
								DWR ID: DWR_NA0002_01_s_2012_23						
25	5.63	5.67	Earthen Levee	Vegetation	WS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses or berryvines on waterside slope.		38.129240 ° -121.585328 °	38.129252 ° -121.584723 °	18				
								DWR ID: DWR_NA0002_01_s_2012_18						
26	5.69	5.69	Earthen Levee	Vegetation	WS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Willows on waterside slope		38.129307 ° -121.584253 °	38.129307 ° -121.584253 °	19				
								DWR ID: DWR_NA0002_01_s_2012_19						
27	5.79	5.81	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level.		38.129537 ° -121.582760 °	38.129599 ° -121.582155 °	17				
								DWR ID: DWR_NA0002_01_s_2012_17						

* Location
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**** Rating**

A : Acceptable
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+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.50
End Levee Mile	0.75
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at wild roses or berryvines on landside toe.	
richard_f_20121012_199.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense landscape on waterside and landside of levee.	
richard_f_20121012_212.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at ground cover on landside slope.	
richard_f_20121012_213.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at dense vegetation on waterside slope.	
richard_f_20121012_214.jpg	



Levee Mile Report Line	7
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense oleander on waterside shoulder spring 2012	
richard_f_20121012_215.jpg	



Levee Mile Report Line	8
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking east at firewood on waterside shoulder.	
richard_f_20121012_200.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/25/2012 10/25/2012	Richard Willoughby

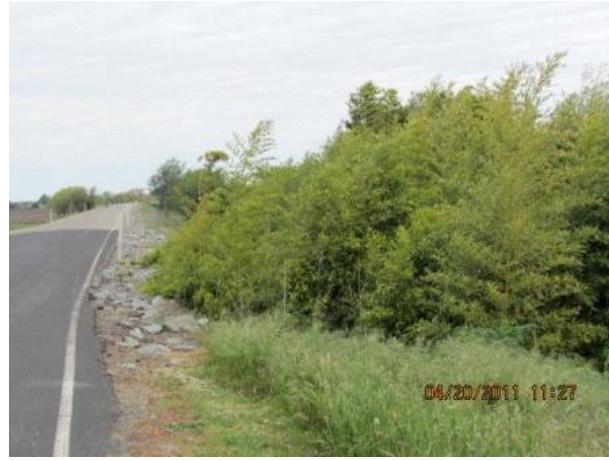
Levee Mile Report Line	8
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking south at firewood on waterside shoulder.	
richard_f_20121012_201.jpg	



Levee Mile Report Line	8
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at firewood on waterside shoulder.	
richard_f_20121012_202.jpg	



Levee Mile Report Line	13
Start Levee Mile	3.93
End Levee Mile	3.93
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense vegetation on waterside slope.	
richard_f_20121012_204.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	13
Start Levee Mile	3.93
End Levee Mile	3.93
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense vegetation on waterside slope spring 2012.	
richard_f_20121012_205.jpg	



Levee Mile Report Line	14
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northeast at landscape on landside slope.	
richard_f_20121012_206.jpg	



Levee Mile Report Line	14
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense landscape on landside slope.	
richard_f_20121012_207.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	14
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at brushes on landside shoulder and slope.	
richard_f_20121012_208.jpg	



Levee Mile Report Line	18
Start Levee Mile	4.78
End Levee Mile	4.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at wooden boards on landside shoulder.	
richard_f_20121012_211.jpg	



Levee Mile Report Line	23
Start Levee Mile	5.42
End Levee Mile	5.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest downed tree limb on landside slope.	
richard_f_20121012_203.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

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Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	24
Start Levee Mile	5.46
End Levee Mile	5.57
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at trees and berryvines and wildrose on landside toe.	
richard_f_20121012_210.jpg	



Levee Mile Report Line	25
Start Levee Mile	5.63
End Levee Mile	5.67
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense vegetation on waterside slope.	
richard_f_20121012_209.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Left	13.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	03/06/2012 - 03/06/2012		10/25/2012 - 10/25/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Gil Labrie DCC Engineering		Gil Labrie DCC Engineering	

Summer & Winter Inspections

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Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
1	0.42	0.42	Earthen Levee	Encroachments	LS En	M	FE : Fence	38.189212 °	38.189212 °	26	
								-121.574757 °	-121.574757 °		
								DWR ID: DWR_NA0002_02_s_2012_26			
2	0.67	0.67	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	38.187486 °	38.187486 °	1	
								-121.578783 °	-121.578783 °		
								DWR ID: DWR_NA0002_02_s_2012_1			
3	0.78	0.83	Earthen Levee	Trim / Thin Trees	WS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.186535 °	38.186103 °	2	
								-121.580395 °	-121.581127 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_2			
4	0.81	0.83	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.186455 °	38.186215 °	8	
								-121.580712 °	-121.581060 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_8			
5	1.44	1.44	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.178950 °	38.178950 °	27	
								-121.587717 °	-121.587717 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_27			
6	1.55	1.56	Earthen Levee	Vegetation	WSA/W Ma	V4	Elderberries are blocking visibility and flood fight capability.	38.174643 °	38.174642 °	43	
								-121.659695 °	-121.659688 °		
								DWR ID: DWR_NA0002_02_s_2012_43			
7	1.59	1.61	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.177105 °	38.176837 °	35	
								-121.589058 °	-121.589225 °		
								DWR ID: DWR_NA0002_02_s_2012_35			
8	1.64	1.64	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	38.176486 °	38.176486 °	3	
								-121.589445 °	-121.589445 °		
								DWR ID: DWR_NA0002_02_s_2012_3			
9	1.81	1.81	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	38.174302 °	38.174302 °	28	
								-121.590863 °	-121.590863 °		
								DWR ID: DWR_NA0002_02_s_2012_28			
10	1.83	1.83	Earthen Levee	Encroachments	LS En	U	BU : Building	38.174030 °	38.174030 °	34	
								-121.590963 °	-121.590963 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_34			
11	1.84	1.84	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	38.173905 °	38.173905 °	4	
								-121.591082 °	-121.591082 °		
								DWR ID: DWR_NA0002_02_s_2012_4			
12	1.91	1.95	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping	38.173120 °	38.172598 °	12	
								-121.591505 °	-121.591853 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_12			
13	2.34	2.38	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.167627 °	38.167152 °	25	
								-121.595538 °	-121.595997 °		
								DWR ID: DWR_NA0002_02_s_2012_25			
14	2.48	2.48	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	38.166378 °	38.166378 °	29	
								-121.597570 °	-121.597570 °		
								DWR ID: DWR_NA0002_02_s_2012_29			
15	2.59	2.63	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2009 - Short reach of vertical bank at the toe. 2010 - Large tree is getting ready to fall in. 2012: No observed change. [2012 Site ID: SAC_18-1_L]	38.165945 °	38.165498 °	17	
								-121.599345 °	-121.600080 °	Y	
								DWR ID:			

* Location LS : Land Side WS : Water Side CR : Crown
** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
16	2.66	2.74	Supplemental USACE Erosion Survey	WS	M Ma	Inspector Comments: 2009 - Large scallop from rotational failure. One fallen tree and one large tree with half of its root structure exposed. 2012: No observed change. [2012 Site ID: SAC_18-0_L]	38.165303 ° -121.600477 °	38.164682 ° -121.601804 °	18 Y	DWR ID:	
17	2.93	3.13	Earthen Levee	Encroachments	LS En	M UR : Urban	38.163317 ° -121.604813 °	38.162707 ° -121.608262 °	30 DWR ID: DWR_NA0002_02_s_2012_30		
18	3.17	3.17	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.162638 ° -121.609068 °	38.162638 ° -121.609068 °	5 Y	DWR ID: DWR_NA0002_02_s_2012_5	
19	3.20	3.20	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.162643 ° -121.609616 °	38.162643 ° -121.609616 °	6 DWR ID: DWR_NA0002_02_s_2012_6		
20	3.22	3.22	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.162609 ° -121.609979 °	38.162609 ° -121.609979 °	7 DWR ID: DWR_NA0002_02_s_2012_7		
21	3.40	3.57	Supplemental USACE Erosion Survey	WS	U Ma	Inspector Comments: 2009 - Fluvial erosion, into the levee slope, close to vertical bank with roadway on top. Pilings that were once at the bankline are now 30 ft out. 2010 - Very steep slope with slumps and overturned trees. 2011 - Upgraded to CRITICAL. Sections of vertical slope with highway on top. Heavy vegetation in front of most of the erosion pockets. Structures built into the levee on the upstream end. 2012: Site continues to worsen. [2012 Site ID: SAC_17-2_L]	38.162641 ° -121.612800 °	38.162828 ° -121.616263 °	19 Y	DWR ID:	
22	3.53	3.60	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.162590 ° -121.615345 °	38.162728 ° -121.616622 °	22 DWR ID: DWR_NA0002_02_s_2012_22		
23	3.61	3.72	Supplemental USACE Erosion Survey	WS	U Ma	Inspector Comments: 2008 - Overstepped levee section with pocket erosion. Plans for repair currently in the design phase. 2010 - Very steep slope with slumps, longitudinal cracking, and overturned trees. 2011 - Upgraded to CRITICAL. Sections of vertical slope with highway on top. Heavy vegetation in front of most of the erosion pockets. 2012: No observed change. [2012 Site ID: SAC_16-8_L]	38.162959 ° -121.617323 °	38.163334 ° -121.619312 °	20 Y	DWR ID:	
24	4.01	4.01	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level.	38.164470 ° -121.624012 °	38.164470 ° -121.624012 °	31 DWR ID: DWR_NA0002_02_s_2012_31		
25	4.04	4.15	Earthen Levee	Vegetation	LS En	U V6 : Landscaping	38.164498 ° -121.624343 °	38.165167 ° -121.626273 °	59 DWR ID: DWR_NA0002_02_s_2012_59		
26	4.47	4.47	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.167135 ° -121.631662 °	38.167135 ° -121.631662 °	32 DWR ID: DWR_NA0002_02_s_2012_32		

* Location
LS : Land Side
WS : Water Side
CR : Crown

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U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
L/MR No	Levee Mile		Category	Item	* Location + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End					Start	End		
27	5.19	5.43	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T1 : Trim trees to at least five feet above ground level.	38.171455 ° -121.643229 °	38.171800 ° -121.647447 °	9 Y	DWR ID: DWR_NA0002_02_s_2012_9
28	5.59	5.59	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T1 : Trim trees to at least five feet above ground level.	38.172019 ° -121.650327 °	38.172019 ° -121.650327 °	10 Y	DWR ID: DWR_NA0002_02_s_2012_10
29	5.66	5.70	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.172308 ° -121.651552 °	38.172497 ° -121.652243 °	11 Y	DWR ID: DWR_NA0002_02_s_2012_11
30	5.68	5.73	Supplemental USACE Erosion Survey	WS Survey	M Ma	Inspector Comments: 2009 - Tension cracks on road on top of levee. Erosion into the levee slope with large mass failure scallop. 2010 - Site extended further upstream to account for additional erosion. Very steep slope with slumping. 2012: No observed change. [2012 Site ID: SAC_15-0_L]	38.172580 ° -121.651821 °	38.172733 ° -121.652499 °	21 Y	DWR ID:
31	5.68	5.71	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level.	38.172388 ° -121.651892 °	38.172512 ° -121.652322 °	36 Y	DWR ID: DWR_NA0002_02_s_2012_36
32	5.82	6.15	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.173130 ° -121.654285 °	38.174559 ° -121.659867 °	13 Y	DWR ID: DWR_NA0002_02_s_2012_13
33	6.35	6.38	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.	38.173586 ° -121.663297 °	38.173391 ° -121.663786 °	14 Y	DWR ID: DWR_NA0002_02_s_2012_14
34	6.82	6.82	Earthen Levee	Encroachments	LS En	FE : Fence	38.169008 ° -121.669420 °	38.169008 ° -121.669420 °	42 Y	DWR ID: DWR_NA0002_02_s_2012_42
35	6.97	7.03	Supplemental USACE Erosion Survey	WS Survey	M Ma	Inspector Comments: 2011 - Large section of bank slumped off. 2012: No observed change. [2012 Site ID: SAC_13-6_L]	38.166583 ° -121.670684 °	38.165794 ° -121.671014 °	23 Y	DWR ID:
36	7.66	7.66	Earthen Levee	Encroachments	LS A/W Ma	PR : Prunings	38.157055 ° -121.675445 °	38.157055 ° -121.675445 °	24 Y	DWR ID: DWR_NA0002_02_s_2012_24
37	8.26	8.50	Supplemental USACE Erosion Survey	WS Survey	M Ma	Inspector Comments: 2010 - Small inlet area behind a man-built spit. Bank is slumping and could possibly be fixed with maintenance. 2011 - Site continues to worsen. 2012: No observed change. [2012 Site ID: SAC_12-1_L]	38.151867 ° -121.682201 °	38.148711 ° -121.682790 °	37 Y	DWR ID:
38	8.35	8.71	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level.	38.150112 ° -121.682305 °	38.144977 ° -121.683345 °	44 Y	DWR ID: DWR_NA0002_02_s_2012_44
39	8.46	8.46	Earthen Levee	Encroachments	WS M Ma	TR : Tree or limb	38.148323 ° -121.682548 °	38.148323 ° -121.682548 °	33 Y	DWR ID: DWR_NA0002_02_s_2012_33

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating	+ Issue Type
A : Acceptable	Ma : Maintenance Deficiency
M : Minimally Acceptable	Ob : Design & System Obsolescence
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A/W : Acceptable but Monitor & Maintain	

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector			
L/MR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.		
	Start	End					Start	End	Photo				
40	8.95	9.17	Supplemental USACE Erosion Survey	WS	U	Ma	Inspector Comments: 2008 - Erosion causing vertical bank at the highway on top of levee. The whole bank along the highway should be repaired. 2009 - Minimal new erosion. 2011 - Bank continues to slowly erode. 2012: Upgrade to critical, new erosion since last year and steeper slopes in sections. [2012 Site ID: SAC_11-2_L]	38.141399 °	38.138158 °	38	-121.685346 °	-121.686531 °	Y
41	9.42	9.42	Earthen Levee	Trim / Thin Trees	WSA/W	Ma	T1 : Trim trees to at least five feet above ground level.	38.135106 °	38.135106 °	15	-121.686065 °	-121.686065 °	DWR ID: DWR_NA0002_02_s_2012_15
42	9.68	9.74	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.131448 °	38.130537 °	16	-121.686432 °	-121.686737 °	DWR ID: DWR_NA0002_02_s_2012_16
43	9.85	9.98	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2004 - Wave wash pockets approximately 100 ft long with new full bank rock between the pockets. 2005 - Spot repairs, but toe is still eroding in several places. 2006 - Low vertical bank along roadway. 2007 - A PL 84-99 repair was constructed, it cover the majority of the site with the exception of the upstream 150 to 200 ft and the downstream 250 ft, therefore it is being kept in the inventory. 2009 - Minimal new erosion. 2010 - Outboard berm looks good, but the banks are still very steep. 2011 - While the outboard berm is protecting against wave wash, bank still has slumping issues. 2012: No observed change. [2012 Site ID: SAC_10-8_L]	38.129722 °	38.127672 °	39	-121.687468 °	-121.688646 °	Y
											DWR ID:		

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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.78
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at dense vegetation on waterside slope.	
richard_f_20121012_216.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.81
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on landside slope blocking view of slope from LM .81 to 0.83.	
richard_f_20121012_218.jpg	



Levee Mile Report Line	4
Start Levee Mile	0.81
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at dense landscaping on landside slope.	
richard_f_20121012_219.jpg	



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WS : Water Side
CR : Crown

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	1.44
End Levee Mile	1.44
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southeast at dense trees on landside toe.	
richard_f_20121012_238.jpg	



Levee Mile Report Line	10
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast pump shed on landside toe.	
richard_f_20121012_239.jpg	



Levee Mile Report Line	10
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at pump shed and landscaping on landside slope and toe.	
richard_f_20121012_240.jpg	



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CR : Crown

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Ob : Design & System Obsolescence
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	1.91
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on landside slope blocking view of slope from LM 1.91 to 1.95.	
richard_f_20121012_221.jpg	



Levee Mile Report Line	12
Start Levee Mile	1.91
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense landscaping on landside slope and toe.	
richard_f_20121012_222.jpg	



Levee Mile Report Line	15
Start Levee Mile	2.59
End Levee Mile	2.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_SAC_18-1_L_1.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	15
Start Levee Mile	2.59
End Levee Mile	2.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_18-1_L_2.jpg



Levee Mile Report Line	16
Start Levee Mile	2.66
End Levee Mile	2.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_18-0_L_1.jpg



Levee Mile Report Line	16
Start Levee Mile	2.66
End Levee Mile	2.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_18-0_L_2.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	3.17
End Levee Mile	3.17
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at overhanging tree on waterside shoulder.	
richard_f_20121012_217.jpg	



Levee Mile Report Line	21
Start Levee Mile	3.40
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	



USACE2012_SAC_17-2_L_1.jpg

Levee Mile Report Line	21
Start Levee Mile	3.40
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	



USACE2012_SAC_17-2_L_2.jpg

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	3.40
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_17-2_L_3.jpg



Levee Mile Report Line	21
Start Levee Mile	3.40
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2012_SAC_17-2_L_4.jpg



Levee Mile Report Line	23
Start Levee Mile	3.61
End Levee Mile	3.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_16-8_L_1.jpg



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WS : Water Side
CR : Crown

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Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	3.61
End Levee Mile	3.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2012_SAC_16-8_L_2.jpg

Levee Mile Report Line	23
Start Levee Mile	3.61
End Levee Mile	3.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2012_SAC_16-8_L_3.jpg

Levee Mile Report Line	27
Start Levee Mile	5.19
End Levee Mile	5.43
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking southeast at dense trees on landside slope and toe.



richard_f_20121012_220.jpg

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WS : Water Side
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Ob : Design & System Obsolescence
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	29
Start Levee Mile	5.66
End Levee Mile	5.70
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at vegetation complies on waterside slope.	
richard_f_20121029_899.JPG	



Levee Mile Report Line	30
Start Levee Mile	5.68
End Levee Mile	5.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_SAC_15-0_L_1.jpg	



Levee Mile Report Line	30
Start Levee Mile	5.68
End Levee Mile	5.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2012_SAC_15-0_L_2.jpg	



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WS : Water Side
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	30
Start Levee Mile	5.68
End Levee Mile	5.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_15-0_L_3.jpg



Looking southeast at vegetation complies on landside slope.

richard_f_20121029_900.JPG



Brick wall on landside shoulder at LM 6.82.

richard_f_20121012_249.jpg



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+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	35
Start Levee Mile	6.97
End Levee Mile	7.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_13-6_L_1.jpg



Levee Mile Report Line	35
Start Levee Mile	6.97
End Levee Mile	7.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_13-6_L_2.jpg



Levee Mile Report Line	35
Start Levee Mile	6.97
End Levee Mile	7.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_13-6_L_3.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

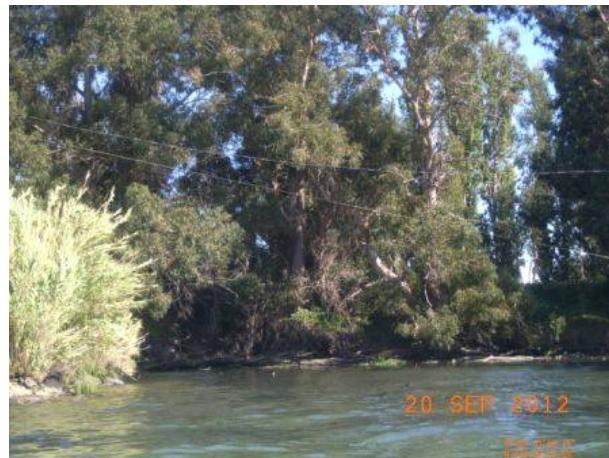
Levee Mile Report Line	36
Start Levee Mile	7.66
End Levee Mile	7.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at prunings on landside toe.	
richard_f_20121012_236.jpg	



Levee Mile Report Line	36
Start Levee Mile	7.66
End Levee Mile	7.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at prunings on landside toe.	
richard_f_20121012_237.jpg	



Levee Mile Report Line	37
Start Levee Mile	8.26
End Levee Mile	8.50
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_SAC_12-1_L_1.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	37
Start Levee Mile	8.26
End Levee Mile	8.50
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2012_SAC_12-1_L_2.jpg	

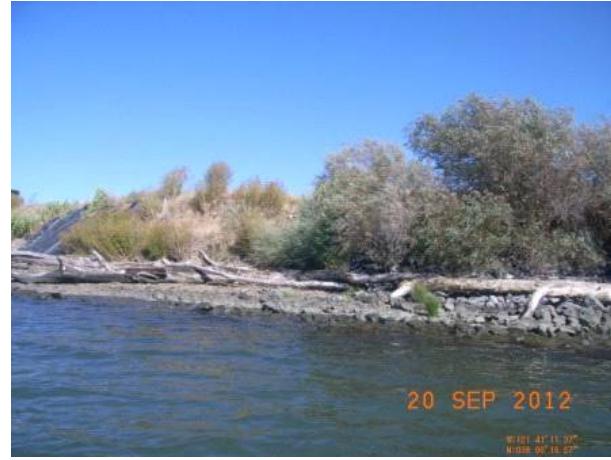


20 SEP 2012

Levee Mile Report Line	38
Start Levee Mile	8.35
End Levee Mile	8.71
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southeast at trees on landside shoulder and slope.	
richard_f_20121012_250.jpg	



Levee Mile Report Line	40
Start Levee Mile	8.95
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2012_SAC_11-2_L_1.jpg	



20 SEP 2012

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	40
Start Levee Mile	8.95
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_11-2_L_2.jpg



Levee Mile Report Line	40
Start Levee Mile	8.95
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_11-2_L_3.jpg



Levee Mile Report Line	43
Start Levee Mile	9.85
End Levee Mile	9.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2012_SAC_10-8_L_1.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

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Unit No. 02 Sacramento River	Left	13.30	10/25/2012 10/25/2012	Richard Willoughby

Levee Mile Report Line	43
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Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2012_SAC_10-8_L_2.jpg



Levee Mile Report Line	43
Start Levee Mile	9.85
End Levee Mile	9.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2012_SAC_10-8_L_3.jpg



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